

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended): A method of transforming information, comprising:

inputting, into a map editor with a graphical user interface, a first structural description of a first native structured format;

inputting, into the map editor with the graphical user interface, a second structural description of a second native structured format;

inputting, into the map editor by a user with the graphical user interface, preferences for transforming an element of the first structural description, in its native format, directly to at least one element of the second structural description in its native format;

storing translation information output from the map editor ~~with the graphical user interface~~, the translation information comprising at least the preferences input by the user;

and

transforming a first document or database structure provided in the first native structured format directly into a second document or database structure in the second native structured format based on the translation information, without using an intermediate representation of the first document or database structure.

2. (Currently Amended): The method of claim 1, wherein the transforming includes transforming the first document and the first native structured format has a Document Type Definition (DTD) directed hierarchy.

3. (Currently Amended): The method of claim 1, wherein the transforming includes transforming the first document and said first native structured format is derived from Standard Generalized Markup Language (SGML).

4. (Currently Amended): The method of claim 3, wherein the transforming includes transforming the first document and said first native structured format is eXtensible Markup Language (XML).

5. (Currently Amended): The method of claim 3, wherein the second native structured format is a Document Type Definition (DTD) directed hierarchy.

6. (Currently Amended): The method of claim 3, further comprising:
outputting, to the graphical user interface, a representation of a translation between the first native structured format and the second native structured format.

7. (Currently Amended): The method of claim 3, wherein the second native structured format is derived from Standard Generalized Markup Language (SGML).

8. (Currently Amended): The method of claim 7, wherein the second native structured format is eXtensible Markup Language (XML).

9. (Currently Amended): A system for transforming information, comprising:
means for inputting, into a map editor with a graphical user interface, a first structural description of a first native structured format;
means for inputting, into the map editor with the graphical user interface, a second structural description of a second native structured format;

means for inputting, into the map editor by a user through the graphical user interface, preferences for transforming an element of the first structural description, in its native format, directly to at least one element of the second structural description in its native format;

means for storing translation information output from the map editor, the translation information comprising at least the preferences input by the user; and

means for transforming a first document or database structure provided in the first native structured format directly into a second document or database structure in the second native structured format based on the translation information without using an intermediate representation of the first document or database structure.

10. (Currently Amended): The system of claim 9, wherein the means for transforming transforms the first document and the first native structured format has a Document Type Definition (DTD) directed hierarchy.

11. (Currently Amended): The system of claim 9, wherein the means for transforming transforms the first document and said first native structured format is derived from Standard Generalized Markup Language (SGML).

12. (Currently Amended): The system of claim 11, wherein the means for transforming transforms the first document and said first native structured format is eXtensible Markup Language (XML).

13. (Currently Amended): The system of claim 11, wherein the second native structured format is a Document Type Definition (DTD) directed hierarchy.

14. (Currently Amended): The system of claim 11, further comprising:
means for outputting, to the graphical user interface, a representation of a translation between the first native structured format and the second native structured format.

15. (Currently Amended): The system of claim 11, wherein the second native structured format is derived from Standard Generalized Markup Language (SGML).

16. (Currently Amended): The system of claim 15, wherein the second native structured format is eXtensible Markup Language (XML).

17. (Currently Amended): A computer-readable medium encoded with instructions for execution on a computer system, which when executed by the computer system, causes the computer system to perform a method comprising:

inputting, into a map editor with a graphical user interface, a first structural description of a first native structured format;

inputting, into the map editor with the graphical user interface, a second structural description of a second native structured format;

inputting, into the map editor by a user through the graphical user interface, preferences for transforming an element of the first structural description, in its native format, directly to at least one element of the second structural description in its native format;

storing translation information output from the map editor, the translation information comprising at least the preferences input by the user; and

transforming a first document or database structure provided in the first native structured format directly into a second document or database structure in the second native

structured format based on the translation information without using an intermediate representation of the first document or database structure.

18. (Currently Amended): The computer-readable medium of claim 17, wherein the transforming includes transforming the first document and the first native structured format has a Document Type Definition (DTD) directed hierarchy.

19. (Currently Amended): The computer-readable medium of claim 17, wherein the transforming includes transforming the first document and said first native structured format is derived from Standard Generalized Markup Language (SGML).

20. (Currently Amended): The computer-readable medium of claim 19, wherein the transforming includes transforming the first document and said first native structured format is eXtensible Markup Language (XML).

21. (Currently Amended): The computer-readable medium of claim 19, wherein the second native structured format is a Document Type Definition (DTD) directed hierarchy.

22. (Currently Amended): The computer-readable medium of claim 19, the method further comprising:

outputting, to the graphical user interface, a representation of a translation between the first native structured format and the second native structured format.

23. (Currently Amended): The computer-readable medium of claim 19, wherein the second native structured format is derived from Standard Generalized Markup Language (SGML).

24. (Currently Amended): The computer-readable medium of claim 23, wherein the second native structured format is eXtensible Markup Language (XML).

25 (Currently Amended). The method of claim 1, wherein the preferences for transforming include a user selection of which elements of the first native structured format to map to the second native structured format.

26 (Currently Amended). The system of claim 9, wherein the preferences for transforming include a user selection of which elements of the first native structured format to map to the second native structured format.

27 (Currently Amended). The computer-readable medium of claim 17, wherein the preferences for transforming include a user selection of which elements of the first native structured format to map to the second native structured format.

28 (Previously Presented). The method of claim 1, further comprising:
generating translation information based on database design information, document type definition information, and a document.

29 (Previously Presented). The system of claim 9, further comprising:

means for generating translation information based on database design information, document type definition information, and a document.

30 (Previously Presented). The computer-readable medium of claim 17, wherein the method further comprises:

generating translation information based on database design information, document type definition information, and a document.

31 (Currently Amended): The method of claim 1, further comprising:

displaying the graphical user interface, wherein the graphical user interface includes a first area that displays a list of tags of the first native structured format, a second area that displays a tag of the second native structured format that a selected tag from the first area maps to, and a third area that displays a list of legal tags which can follow a last tag in the second area; and

creating a mapping between the first native structured format and the second native structured format based on contents of the first and second areas.

32 (Currently Amended): The method of claim 1, further comprising:

editing, with the graphical user interface, an existing map that transforms the first document or database structure provided in the first native structured format into the second document or database structure in the second native structured format.

33 (Currently Amended): The method of claim 1, further comprising:

creating, with the graphical user interface, a map that transforms the first document or database structure provided in the first native structured format into the second document or database structure in the second native structured format.

34 (Canceled).

35 (Currently Amended): The method of claim 1, further comprising:

breaking down a structure of the first document or database structure into source components and structure based on the first native structured format;

presenting the source components and structure to the user through the graphical user interface of the map editor;

interactively selecting, by the user through the graphical user interface, components of the first native structured format with candidate target components of the second native structured format; and

interactively selecting, by the user through the graphical user interface, target components of the candidate target components for a mapping of the source components for creation of a rule for a transformation map.